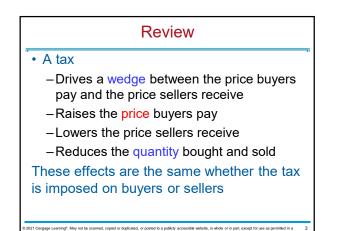
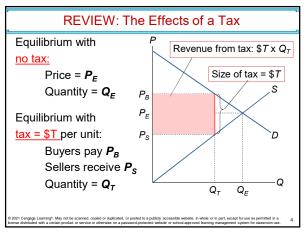
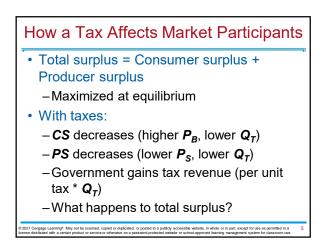


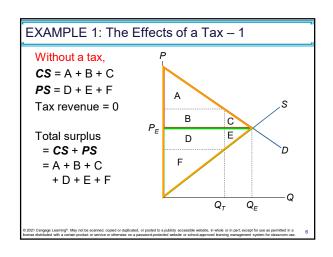
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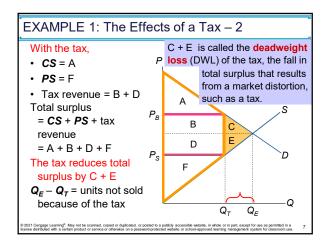
- How does a tax affect consumer surplus, producer surplus, and total surplus?
- What is the deadweight loss of a tax?
- What factors determine the size of this deadweight loss?
- How does tax revenue depend on the size of the tax?

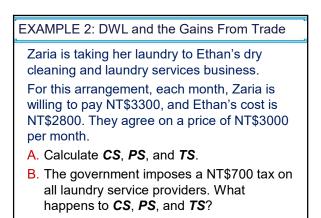


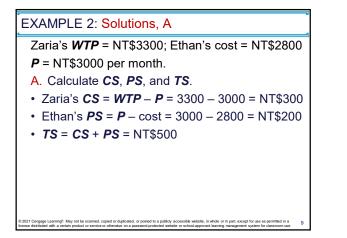


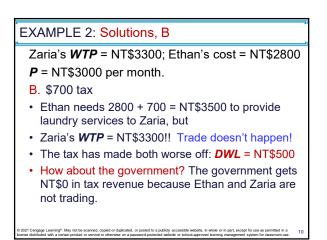


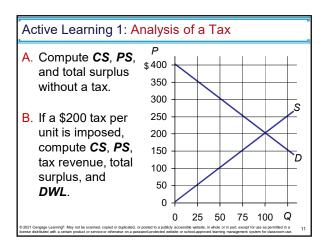


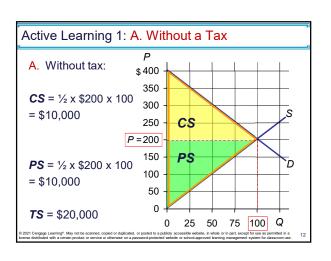


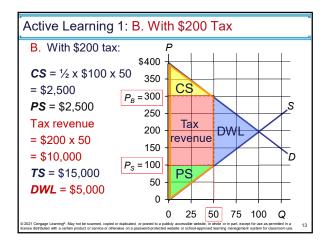


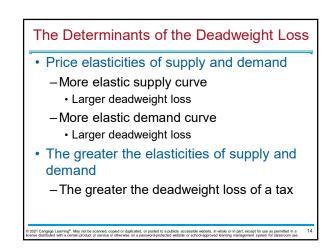


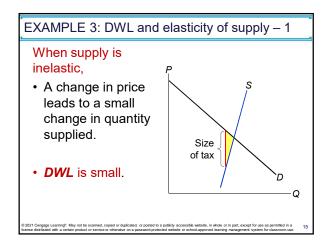


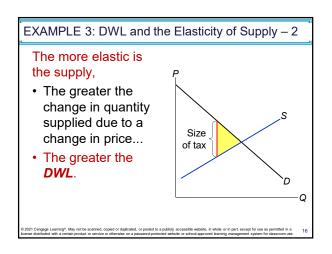


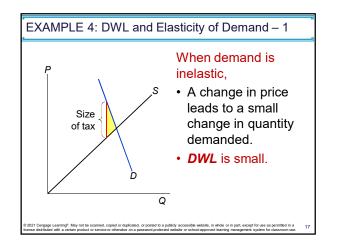


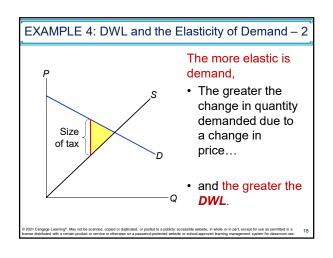












Active Learning 2: Elasticity and the DWL

In each situation, explain if the DWL of a tax would be larger if the tax were imposed on:

- A. Only Mountain Dew or soda in general?
- B. Airfare in the short run or airfare in the long run?
- C. Groceries or meals at fancy restaurants?

Active Learning 2: A. Mountain Dew or Soda?

A. Mountain Dew or soda ?

From Chapter 5:

A good with many close substitutes (such as Mountain Dew) has a more price-elastic demand than a broadly defined good (such as soda).

• So, a tax on Mountain Dew would cause a larger DWL than a tax on soda.

Active Learning 2: B. Short Run or Long Run?

B. Airfare in the short run or airfare in the long run?

From Chapter 5:

The price elasticities of demand and supply are larger in the long run than in the short run.

• So, a tax on air travel would cause a larger DWL in the long run (when the demand and supply of airfare are more elastic) than in the short run.

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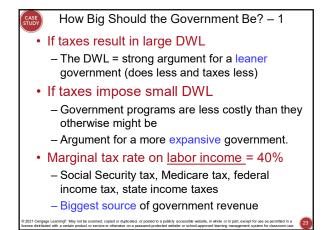


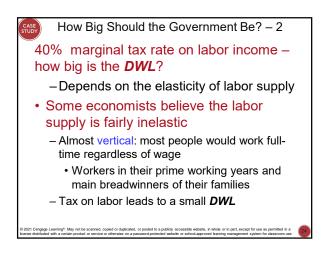
C. Groceries or meals at fancy restaurants? From Chapter 5:

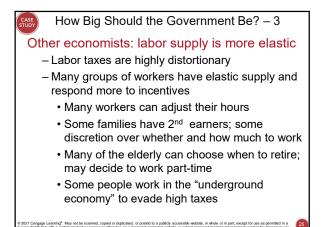
The demand for necessities (groceries) are less price-elastic than the demand for luxuries (meals at fancy restaurants).

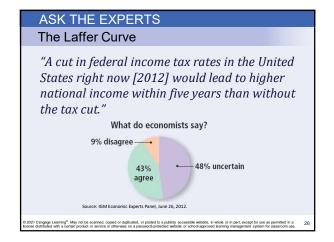
• So, a tax on restaurant meals would cause a larger DWL than a tax on groceries.

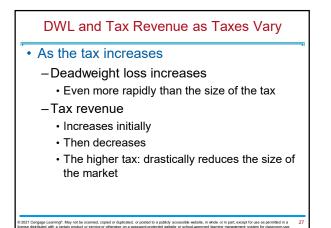
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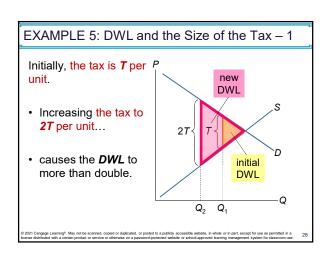


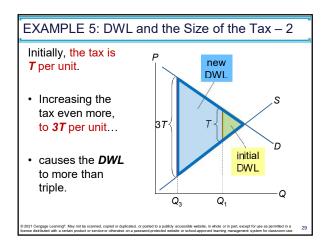


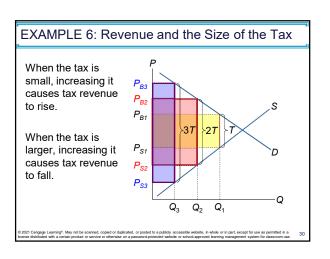


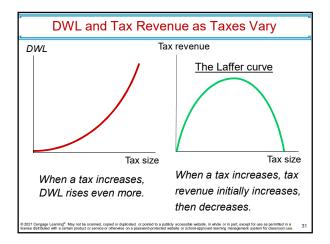


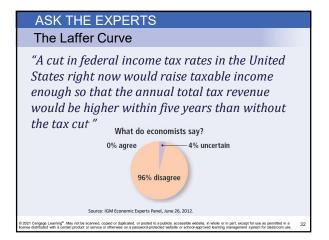










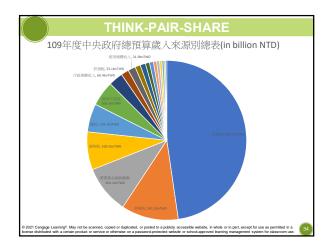


THINK-PAIR-SHARE

You are watching Econman's YouTube channel with your mom. Econman reports that Taiwan has a budget deficit of NT\$204.1 billion in 2020 that it is finances with investment gains (mainly via central bank's foreign investments!!). Taiwan currently collects NT\$241.5 billion from its 5% sales tax.

Mom says, "Taiwan can fix its deficit by increasing the sales tax to 10%. That will increase tax revenue to NT\$483 billion providing the needed NT\$204.1 billion."

- A. Will doubling a tax always double the tax revenue? Why or why not?
- B. Will increasing the sales tax affect tax revenue and DWL in all markets to the same degree? Explain.



CHAPTER IN A NUTSHELL

- A tax on a good reduces the welfare of buyers and sellers, and the reduction in CS and PS usually exceeds the revenue raised by the government.
 - The fall in total surplus is DWL of a tax.
- Taxes have deadweight losses (DWL).
 - Buyers consume less and pay a higher P.
 - Sellers produce less and receive a lower P.

CHAPTER IN A NUTSHELL

- Large S and D elasticities: larger DWL
- As a tax grows larger
 - Distorts incentives more
 - Its DWL grows larger
 - Tax revenue first rises with the size of a tax, but if the tax gets large enough, tax revenue starts to fall.

Chapter 8: The Costs of Taxation

- Welfare Analysis of Taxation
- Deadweight Loss (Harburger Triangle)
- Homework:
- Mankiw, Ch.8, Problem 2, 4, 5, 8, 10

The Cost of Taxation

Chapter 8: Challenge Questions/ex-Midterm 2007 - Essay Q3, Q4 2008 - Essay B (Multi-Choice Q8) 2009 - Essay A (Multi-Choice Q12) 2010 - Essay B 2012 - Essay A10-A12, B (True/False Q7-Q8) 2013 - Essay C, D (True/False Q9-Q10) 2014 - Essay A 2017 - Essay A 2019 - Essay B2 2020/10/22 The Cost of Taxation